

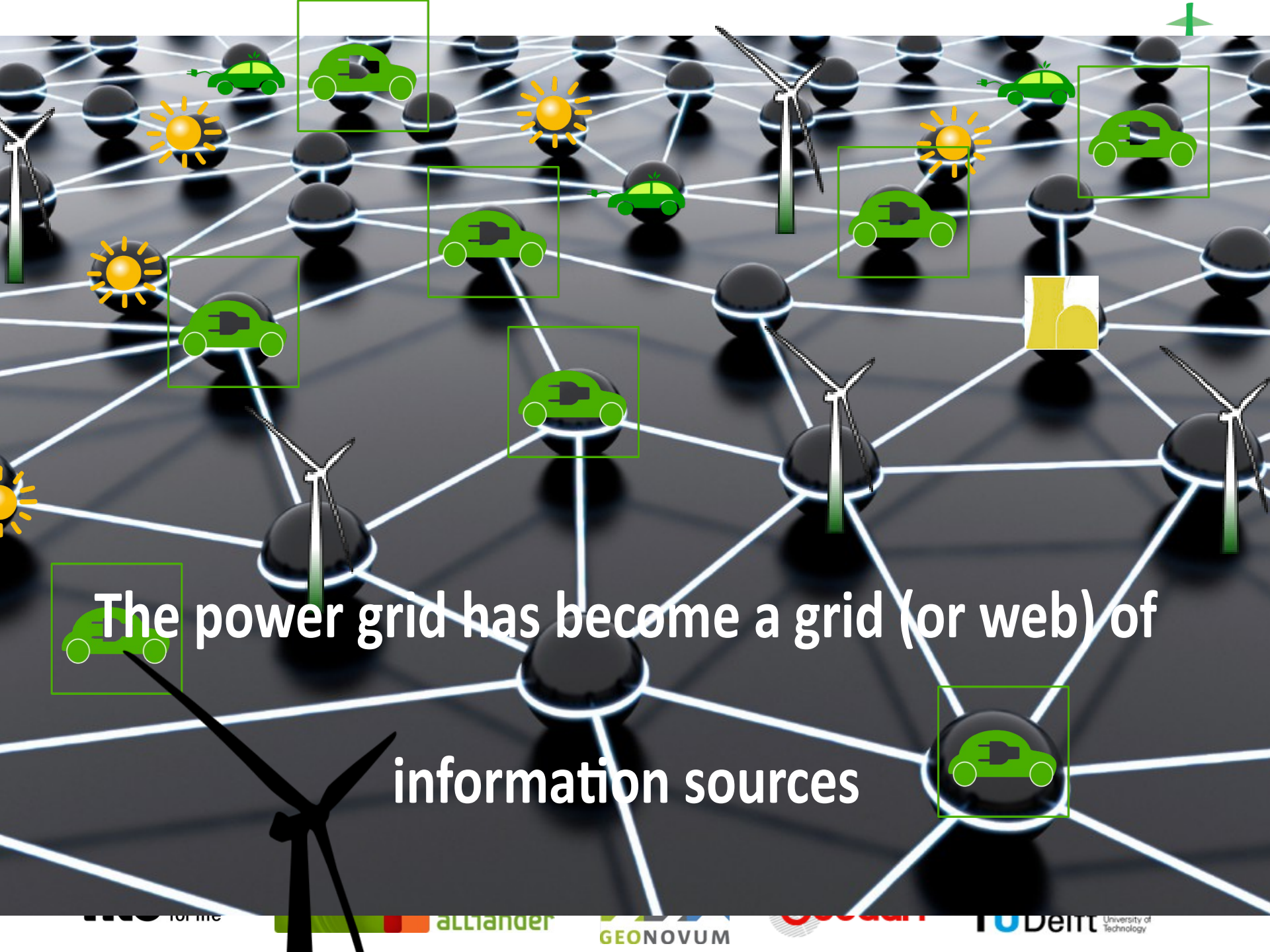


Cerise-Smart Grid

LD 4 Energy Balancing

Combining Energy and Spatial Information Standards as Enabler
for Smart Grids

TKI Smart Grid Project: TKISG01010



The power grid has become a grid (or web) of
information sources

A cartoon illustration of a man with dark hair and blue eyes, wearing a green turtleneck sweater. He is standing with his hands on his hips, looking up at a yellow vending machine. The vending machine has a digital display showing '00001522' and a coin slot. It is set against a background of a green wall on the left and an orange wall on the right.

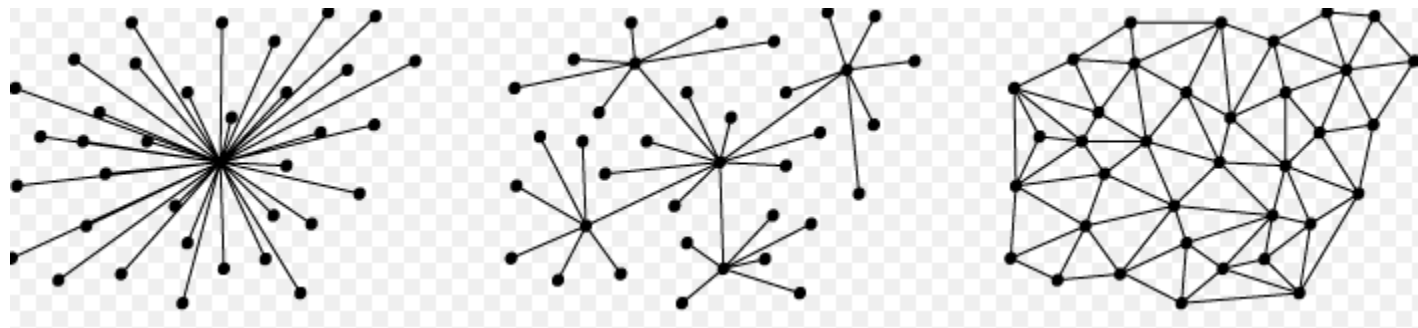
The prosumer has become a principal player in this sensor network



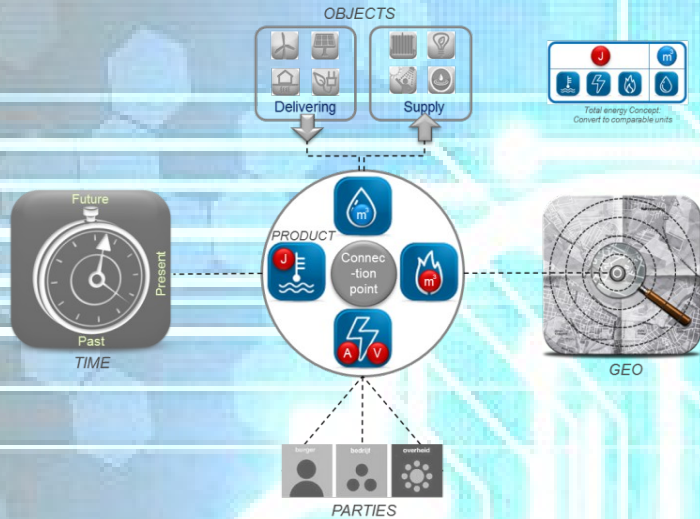


Energy sector not yet ready for flexible data exchange

Smart grid implies a decentralized/distributed data infrastructure for information services connecting a **variety** of different users, **variety** of different data sources for a **variety** of applications

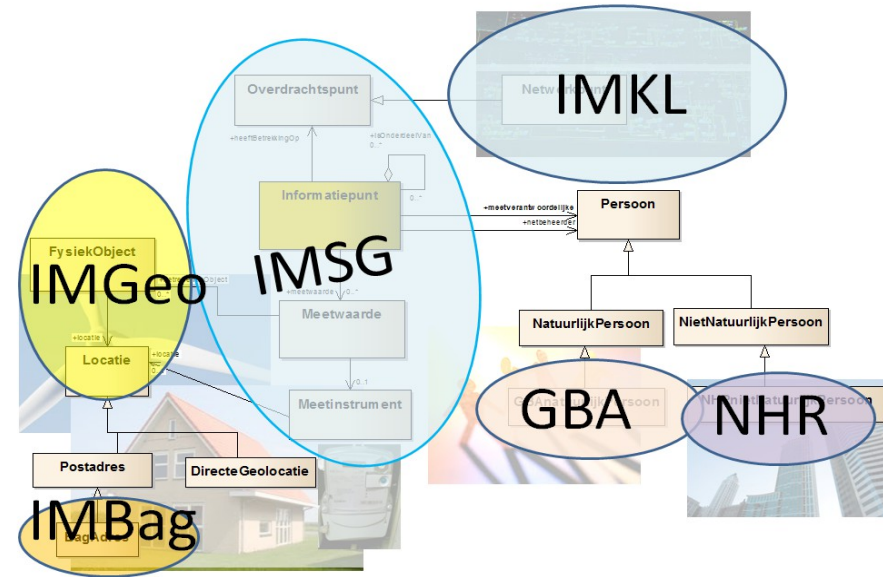


The CERISE approach 1: Information modelling: position the energy domain: What is your contribution?



**Stay in your comfort zone:
Keep it basic:
Talk about energy**

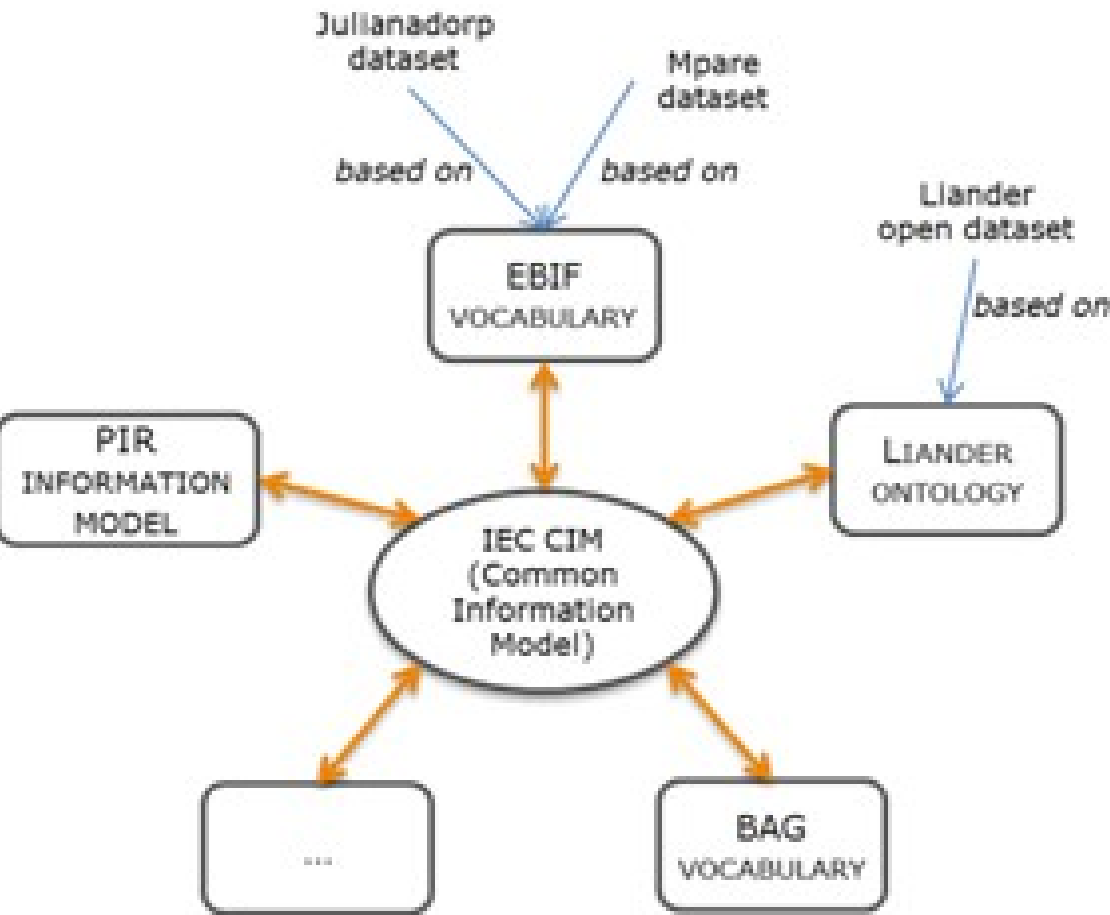
**And reach out to
other domains:**



Publish IMSG-EB as a NEN 3610 model to **connect** to the framework of semantic geo-informatiestandards.

The CERISE approach 2: Link up

Familiarize yourself with the w3c standards and start “ontologize” your standards. Then connect.



Semantic web technology enables separation of data integration and data harmonization.



Linked data has the potential:

Use the WEB for worldwide (and door to door) connection;

Sharing by publishing;

Integration by linking.



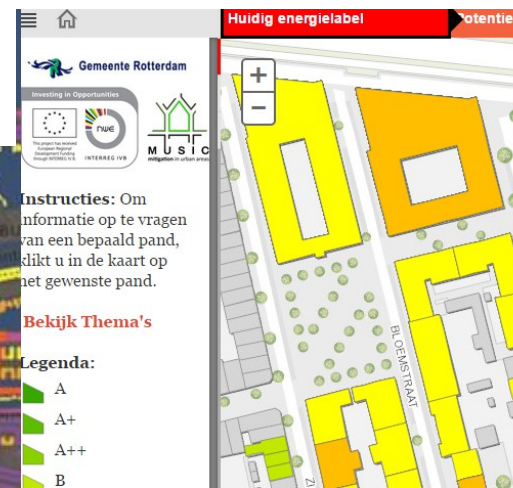
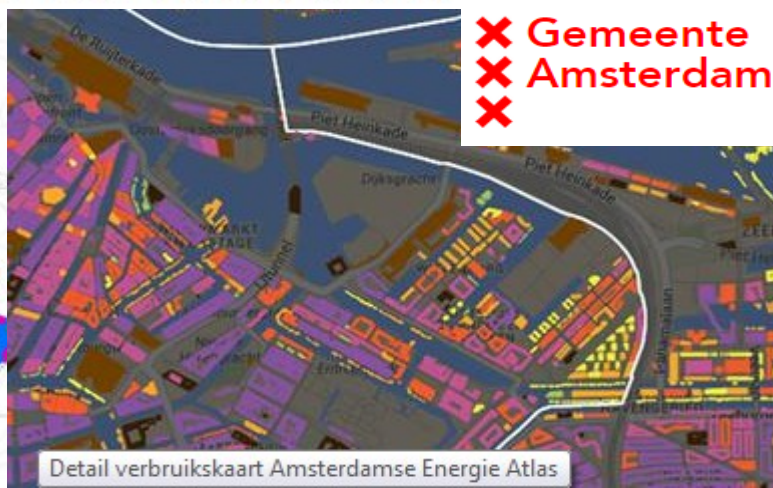
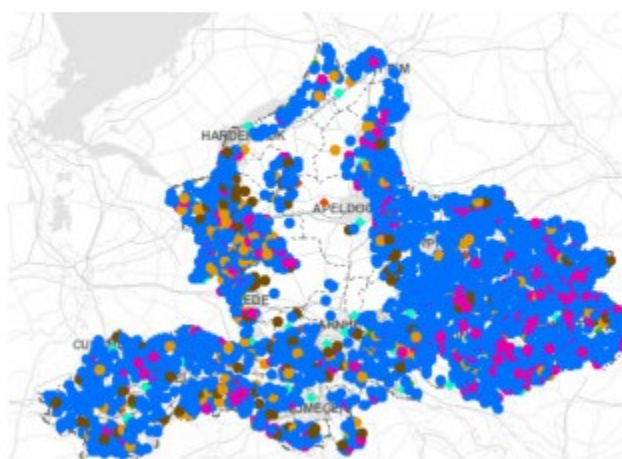
Energy Data Warehouse



Energy sector is the principal owner of location based energy

data. These data could be presented as a **key register** or open data. Agreements on standards for publication will greatly facilitate the uptake of energy data in a geo data infrastructure and vica versa.

GELDERLAND LANCEERT ENERGIEATLAS



For the future:

FUTURE

The Energy data warehouse as the central informationservice for reliable energy data. A node in the energy Web of data.

CERISE made a start by working on standardisation and inter sectoral connecting



Verbeelding van de Laan van de Leefomgeving

CERISE-SG



Thank You

<http://www.cerise-project.nl>